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SERIAL NUMBER FILING DATE	RIAL NUMBER FILING DATE FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	
07/460,852 02/21/9	WEINER	H	06271220004 EXAMINER	
,	18N1/0922	FAM.K		
SAMUEL L. FOX	1000170522	ART UNI	PAPER NUMBER	
DARBY & DARBY			24	
805 THIRD AVE., NEW YORK, N.Y. 10022-75	51:3	1813		
1420 10100 1411 10022 70	J10	DATE MAILED:		
This is a communication from the examiner in ch COMMISSIONER OF PATENTS AND TRADEM	arge of your application.		09/22/93	
This application has been examined	Responsive to communication	IDS 5/20 Delandion of filed on ownered Size	1937 1,3433 5718193 3 1 This action is made fina	
A shortened statutory period for response to this Failure to respond within the period for response		month(s),days ome abandoned. 35 U.S.C. 133	from the date of this letter.	
Part I THE FOLLOWING ATTACHMENT(S) A	RE PART OF THIS ACTION:			
Notice of References Cited by Examination Notice of Art Cited by Applicant, PTO Information on How to Effect Drawing	-1449.		Patent Drawing Review, PTO-948 nt Application, PTO-152.	
Part II SUMMARY OF ACTION				
1. Claims 1, 2, 9, 11-1	3,15-18 a	nd20	are pending in the application	
Of the above, claims		a	re withdrawn from consideration.	
2. 12 Claims 3-7, 10, 14	and 9		have been cancelled.	
3. Claims	U		are elleund	
4. 1 7 9 11-1	3,15-18	and 20	are rejected.	
5. Claims	1		are objected to.	
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6. Claims		are subject to restrict	ion or election requirement.	
7. This application has been filed with infor	mal drawings under 37 C.F.R. 1.8	35 which are acceptable for example for example 15 minutes are acceptable for example 15 minutes are accepta	mination purposes.	
8. Formal drawings are required in respons				
9. The corrected or substitute drawings have are acceptable; not acceptable (see	re been received on ee explanation or Notice of Drafts	. Under 37 man's Patent Drawing Review,	C.F.R. 1.84 these drawings PTO-948).	
10. The proposed additional or substitute she examiner; disapproved by the examiner	eet(s) of drawings, filed on ner (see explanation).	has (have) been	☐ approved by the	
11. The proposed drawing correction, filed _	, has been	n □approved; □disapprove	d (see explanation).	
12. Acknowledgement is made of the claim for	or priority under 35 U.S.C. 119.	The certified copy has Deen	received not been received	

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13. Since this application apppears to be in condition for allowance except for formal matters, prosecution as to the merits is closed in

__ ; filed on _

14. Other

Deen filed in parent application, serial no. __

accordance with the practice under Ex parte Quayle, 1935 C.D. 11; 453 O.G. 213.

The Group and/or Art Unit location of your application in the PTO has changed. To aid in correlating any papers for this application, all further correspondence regarding this application should be directed to Group Art Unit 1813.

Applicant's amendments and arguments filed May 13, 1993, Declarations by Dr. Weiner filed May 18, 1993 have been carefully considered and are sufficient to overcome the rejection under 35 USC 112, second paragraph against claims. Further the rejection under 35 USC 102/103 against claim 19 in moot since the claim has been cancelled.

However, the specification remains objected to and claims remain rejected as set forth below.

Making particular references to the parent applications and updating the status of the parent application at the first line of the specification is required.

Applicant has not complied with one or more conditions for receiving the benefit of an earlier filing date under 35 U.S.C. § 120 as follows:

The continuing application must contain a specific reference to the parent application(s) in the specification.

The disclosure is objected to because of the following informalities: "MPB" occurs at page 19 in the legend to Table III.

Further, Applicant's attention is drawn to the fact that claim 20 was never requested to be added. The claim newly appears as claim "21 (amended)" in the amendment filed 8/31/92. Appropriate correction to indicate that the claim 20 is "once amended" as in the amendment filed May 13, 1993 and not "twice amended" is suggested. Appropriate

correction is required.

The specification reaming objected to and claims 1, 2, 9, 11-13, 15-18 and 20 remain rejected under 35 USC 112, first paragraph and under 35 USC 101 for the reasons previously set forth in the prior Office actions.

Applicant urges at pages 4-5 that the declaration filed May 18, 1993 provides the operability and utility of the instant invention. However, Applicant's attention is drawn to the fact that the showing is not commensurate with claimed invention.

Further, the specification as originally filed does not provide the conditions and parameters that would yield successful practice with human. It is unclear what Applicant considers "the dosages were determined through empirical extrapolation of those used in animal studies". For instance, the declaration uses 300 mg capsules of MBP (bovine) per day per person. The specification on the other hand uses $25\mu g$, $100\mu g$ and $500\mu g$ MBP at 14 and 7 days before induction of EAE in Lewis Rats (Table 1 on page 16); administered 0.5 mg MBP 7.5 and 2 days before or after induction EAE (Table II, on page 18) or before and after or before or after (Table III on page 19) with 0.1 mg and the persistence of oral tolerance tested with 0.5mg (Table II) were challenged with 50 μg MBP in CFA up to 56 days after induction of EAE (Table IV on page 20). Four peptides and MBP bovine of varying amounts were tested in Table V on page 21 to determine the efficacy of prevention of clinical incidence of EAE.

The protocol used in the specification cannot be translated to effective parameters to

human studies in view of the art recognized conflicting findings and/or unpredictability. It is noted that depending on the amounts of antigens administered, the same antigen elicits immune response or suppresses the immune response or cause autoimmune diseases.

As such, the data presented in the declaration is encouraging for the efficacy of use of MBP in human, but such are not commensurate in scope as originally filed.

Claims 1, 2, 9, 11-13, 15-18 and 20 remain rejected under 35 USC 103 over Campbell et al in view of Whitacre et al and/or Nagler-Anderson et al set forth in the prior Office action.

Applicant urges at pages 6-11 of the amendment that Campbell's teachings are totally different than oral tolerance and because the difference in mode of administration between the teaching to the secondary references Whitacre et al and Nagler-Anderson et al, the secondary references cannot be used to modify the teachings of Campbell.

However, Applicant's attention is drawn to the fact that all of the references teach tolerance irrespective of routes using the autoantigens.

Further, Applicant at pages 9-10 section B of amendment urges that Whitacre administers MBP with STI and that the authors later articles further define the mechanism of action. However, the teachings relied on are as of the filing date of the instant application and as such the reference positively provides motivation for the use of MBP in human.

Further, Applicant's attention is drawn to the fact that the instant claims do not exclude the use of STI.

Applicant at section B on pages 10 and 11 of the amendment urges than Nagler-Anderson provides no basis the results it describes could be extrapolated to humans because was not capable of adoptively transferring protection.

However, the reference teaches that oral tolerance occurs using T-dependent antigens and it was known that intravenous administration of autoantigen such as collagen was effective to suppress induction of arthritis. See page 7443 of Nagler-Anderson.

Applicant's contention that Campbell's regime is ineffective or that the mechanism is via anergy is not persuasive because the instant claims do not recite active T-cell suppression and read on anergy and the reference relied on reports optimistic data.

Therefore, Applicant's arguments and declaration are not deemed persuasive.

Claims 1, 9, and 11-12 remain provisionally rejected since a terminal disclaimer has not been made of record.

Applicant believes such "a rejection is premature". See page 12 of amendment.

Applicant's attention is drawn to the fact it was a "provisional" rejection and the basis for the provisional rejection was stated to be because the conflicting claims have not in fact been patented.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 C.F.R. § 1.136(a).

A SHORTENED STATUTORY PERIOD FOR RESPONSE TO THIS FINAL ACTION IS SET TO EXPIRE THREE MONTHS FROM THE DATE OF THIS ACTION. IN THE EVENT A FIRST RESPONSE IS FILED WITHIN TWO MONTHS OF THE MAILING DATE OF THIS FINAL ACTION AND THE ADVISORY ACTION IS NOT MAILED UNTIL AFTER THE END OF THE THREE-MONTH SHORTENED

STATUTORY PERIOD, THEN THE SHORTENED STATUTORY PERIOD WILL EXPIRE ON THE DATE THE ADVISORY ACTION IS MAILED, AND ANY EXTENSION FEE PURSUANT TO 37 C.F.R. § 1.136(a) WILL BE CALCULATED FROM THE MAILING DATE OF THE ADVISORY ACTION. IN NO EVENT WILL THE STATUTORY PERIOD FOR RESPONSE EXPIRE LATER THAN SIX MONTHS FROM THE DATE OF THIS FINAL ACTION.

Papers related to this application may be submitted to Group 1800 by facsimile transmission. Papers should be faxed to Group 1800 via the PTO Fax Center located in Crystal Mall 1. The faxing of such papers must conform with the notice published in the Official Gazette, 1096 OG 30 (November 15, 1989). The CM1 Fax center number is (703) 308-4227 or (703) 305-3014.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kay K. Kim Ph.D. whose telephone number is (703) 308-3881.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0196.

Kim/tf September 21, 1993

> KAY'K. KIM PRIMARY EXAMINER GROUP 1800

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